

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/626,650	07/25/2003	Masataka Yamashita	02910.000070.	1400
••••	7590 02/06/200° CELLA HARPER & 1	EXAMINER		
30 ROCKEFELLER PLAZA			PIZIALI, JEFFREY J	
NEW YORK, N	NY 10112		ART UNIT	PAPER NUMBER
		•	2629	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	02/06/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Appl	ication No.	Applicant(s)	Applicant(s)		
Office Action Summary			S26,650 YAMASHITA ET AL.		AL.		
			niner	Art Unit			
		Jeff F	Piziali	2629			
The Period for Re	e MAILING DATE of this commu ply	nication appears o	n the cover sheet	with the correspondence a	ddress		
WHICHEV - Extensions after SIX (6) - If NO period - Failure to re Any reply re	ENED STATUTORY PERIOD F 'ER IS LONGER, FROM THE Not time may be available under the provision: MONTHS from the mailing date of this comil for reply is specified above, the maximum ply within the set or extended period for reply ceived by the Office later than three months nt term adjustment. See 37 CFR 1.704(b).	MAILING DATE O s of 37 CFR 1.136(a). In munication. tatutory period will apply y will, by statute, cause the	F THIS COMMUN no event, however, may and will expire SIX (6) M ne application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133)	,		
Status							
1)⊠ Res	consive to communication(s) file	ed on 16 October	2006 and 14 Nov	vember 2006			
,		2b)⊠ This action					
	,— · · · · · · · · · · · · · · · · · · ·						
	ed in accordance with the pract		-	•			
Disposition o	f Claims			· .			
· <u> </u>	m(s) <u>10-15 and 17</u> is/are pendir	ng in the application	on				
	of the above claim(s) is/a	•					
	m(s) is/are allowed.						
	m(s) <u>10-15 and 17</u> is/are rejecte	ed.					
	n(s) is/are objected to.						
	n(s) are subject to restri	ction and/or electi	on requirement.				
Application P	apers						
9) The	pecification is objected to by th	e Evaminor					
	drawing(s) filed on <u>27 December</u>		⊠ accented or h\	Onlineted to by the Evan	minor		
	cant may not request that any obje				milei.		
	acement drawing sheet(s) including				ER 1 121(d)		
	path or declaration is objected to						
	35 U.S.C. § 119						
_	owledgment is made of a claim	for foreign priority	v under 35 U.S.C.	8 119(a)-(d) or (f)			
	b)☐ Some * c)☐ None of:	Tor Toroign phone	y ander 00 0.0.0.	. 9 119(a)-(d) of (i).			
, <u> </u>	•	documents have	been received.				
2.	•			Application No.			
3.					l Stage		
	application from the Internation				,		
* See th	e attached detailed Office action	on for a list of the	certified copies no	ot received.			
	·						
Attachment(s)							
``	eferences Cited (PTO-892)		4) Intended	v Summary (PTO-413)			
2) 🔲 Notice of Di	aftsperson's Patent Drawing Review (F	PTO-948)	Paper No	o(s)/Mail Date			
	Disclosure Statement(s) (PTO/SB/08) /Mail Date		5)	f Informal Patent Application			
	·		~, L Oulei	 · ′			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed (on 14 November 2006) in this application after final rejection (mailed 17 July 2006). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicants' submission filed on 16 October 2006 has been entered.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

3. The drawings were received on 27 December 2005. These drawings are acceptable.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an

Application/Control Number: 10/626,650

Art Unit: 2629

international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 10-15 and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by *D'Souza* et al (US 6,862,029 B1).

Regarding claim 10, D'Souza discloses a method of measuring luminance of an image display apparatus [Fig. 1; 10] having a plurality of pixels [Fig. 1; 14], comprising: a first step of causing a plurality of the pixels that are not adjacent each other in a plurality of the pixels arranged in a first direction to emit light in a first period (i.e. red pixels along a horizontal line/row of the CRT/FED-type display's grid/matrix -- wherein horizontally neighboring red pixels will inherently be separated from each other by green and blue pixels spaced along the same horizontal line/row), and causing a plurality of the pixels that are adjacent to the plurality of the pixels emitting light in the first period in the first direction not to emit light in the first period (i.e. green or blue pixels along a horizontal line/row of the CRT/FED-type display's grid/matrix); a first detecting step [Fig. 1; 18] of detecting each of emission statuses of the plurality of the pixels emitting light in said first step by imaging light from the plurality of the pixels emitting in the first period on respective different positions of a sensor device [Fig. 1; 18] in a plane of which optical sensors are arranged (see Column 6, Lines 17-48); a second step of causing a plurality of the pixels that do not emit light in said first step in the plurality of the pixels arranged in the first direction to emit light, and a second detecting step of detecting each of emission statuses of the plurality of the pixels emitting light in said second step (see Column 3, Lines 1-47 -- wherein brightness output is detected/measured one RGB color at a time).

Art Unit: 2629

Regarding claim 11, D'Souza discloses said second step includes causing a plurality of the pixels that are not adjacent to each other in a plurality of the pixels not emitting light in said first step, to emit light (see Column 2, Lines 16-31 -- wherein only one RGB color at a time is output).

Regarding claim 12, D'Souza discloses said first detecting step and said second detecting step are executed using at least one measuring apparatus [Fig. 1; 18] for imaging emission statuses of a plurality of the pixels, to detect a two dimensional image [Fig. 1; 12] (see Column 3, Lines 12-23).

Regarding claim 13, D'Souza discloses said first step, said first detecting step, said second step and said second detecting step are executed by matching a part of a display area [Fig. 2; 210] of said image display apparatus and a measurement area [Fig. 2; 208] of said at least one measuring apparatus, and then said first step, said first detecting step, said second step and said second detecting step are executed by matching another part of the display area of said image display apparatus and the measurement area of said at least one measuring apparatus (see Column 6, Lines 17-48 -- wherein using plural display patterns and plural photometers is disclosed).

Regarding claim 14, D'Souza discloses the at least one measuring apparatus includes a plurality of measuring apparatuses disposed on the image display apparatus, and luminances of

Art Unit: 2629

the pixels are simultaneously measured by the measuring apparatuses (see Column 6, Lines 17-48 -- wherein using plural photometers simultaneously is disclosed).

Regarding claim 15, this claim is rejected by the reasoning applied in rejecting claim 10; furthermore, D'Souza discloses a method of manufacturing a display (see Fig. 2; Column 6, Lines 1-11) comprising: an adjustment step of adjusting characteristics (via transfer function calculations) of the pixels based on a result obtained in said first detecting step and said second detecting step (see Column 5, Lines 31-38).

Regarding claim 17, this claim is rejected by the reasoning applied in rejecting claims 10 and 15; furthermore, D'Souza discloses the image display apparatus has a plurality of electron-emitting devices and fluorescent member emitting light by being irradiated by electrons emitted from the electron-emitting devices (see Column 3, Lines 1-11 -- wherein the display may be, among other things, a CRT or FED type display device).

Response to Arguments

6. Applicants' arguments filed 16 October 2006 have been fully considered but they are not persuasive. The applicants contend, "D' Souza et al. is not seen to disclose or suggest measuring luminance using a sensor device in a plane of which optical sensors are arranged, let alone imaging light from a plurality of non-adjacent pixels emitting light on respective different positions of a sensor device in a plane of which optical sensors are arranged" (see Page 8,

Application/Control Number: 10/626,650

Art Unit: 2629

Paragraph 2 of the 'Amendment After Final' filed 16 October 2006). However, the examiner respectfully disagrees.

D'Souza explains, "The resulting pattern 212 displayed on the monitor screen 210 could be a red dot or square comprising a plurality of pixel locations. As the voltage input controlling the pattern is incrementally changed from V_{min} to V_{max} or vice versa, the brightness of the resulting pattern 212 is measured incrementally by the photometer 208. It is understood that the pattern 212 need only be a pattern large enough to be discerned and focused on by the photometer. The patterns shape is not substantially significant. Furthermore, the pattern could be positioned at one or various locations on the screen 210... It is further understood that the colors do not have to be limited to the red, green, and blue, but could be combinations of each or whatever the basic colors that are combined to create other colors are for the specific CDD. It is further understood that more than one color can be displayed on the screen 210 and be recorded by a plurality of photometers at the same time" (see Column 6, Lines 22-48).

Therefore, D'Souza does indeed teach detecting each of emission statuses of the plurality of the pixels (i.e. red and blue pixel patterns positioned at various locations on the screen, for instance) emitting light in the first step by imaging light from the plurality of the pixels emitting in the first period (wherein, during which such red/blue emission periods, green pixels would not emit light) on respective different positions (i.e. "various locations on the screen") of a sensor device [Fig. 1; 18] in a plane of which optical sensors (i.e. "a plurality of photometers") are arranged, as instantly claimed.

By such reasoning rejection of the claims is deemed necessary, proper and thereby maintained at this time.

Art Unit: 2629

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff Piziali whose telephone number is (571) 272-7678. The examiner can normally be reached on Monday - Friday (6:30AM - 3PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on (571) 272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jeff Piziali

2 February 2007